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UNITED STATES DEPARTMENT OF AGRICULTURE
OFFICE OF AGRICULTURAL INSTRUCTION
Washington, D. C.



RURAL ENGINEERING PUBLICATIONS OF THE DEPARTMENT OF AGRICULTURE
CLASSIFIED FOR THE USE OF TEACHERS.

The following list of publications has been prepared to assist teachers in making an intelligent selection of Department publications on topics pertaining to the subject of rural engineering. Teachers should avoid requesting a large list of publications on different topics at one time, or of publications the use of which is to be distributed over a long period of school work. It must be the policy of the Department to limit the distribution of publications to actual present needs as nearly as possible, so that the funds available for purposes of publication can be made to benefit the largest possible number of real users. A few bulletins carefully studied by the teacher and the class or assigned to certain members for individual reports are of much greater service than a hundred forgotten on the shelves at home or in the school library. Copies of any of the publications listed below, except those marked with an asterisk, may be obtained free upon application to the Division of Publications of the U. S. Department of Agriculture as long as the Department's supply lasts, otherwise they may be purchased from the Superintendent of Documents. Those marked with an asterisk are only obtained at the prices indicated from the Superintendent of Documents, Government Printing Office, Washington, D. C. Postage stamps, coins defaced, or worn smooth, foreign money and uncertified checks will not be accepted. No publications are sold by the Department of Agriculture.

Topic	Title	Publication	Price
Irrigation	*:How to Build Small Irrigation Ditches	:Farmers' Bulletin 158:	.05
	:Sugar Beet Growing Under Irrigation.....	:Farmers' Bulletin 567:	.05
	*:Irrigation Practice in Rice Growing	:Farmers' Bulletin 673:	.05
	:Construction and Use of Farm Weirs	:Farmers' Bulletin 813:	.05
	:Farm Reservoirs	:Farmers' Bulletin 828:	.05
	:Irrigation of Grain.....	:Farmers' Bulletin 863:	.05
	:Practical Information for Beginners in		
	: Irrigation.....	:Farmers' Bulletin 364:	.05
	:Irrigation of Alfalfa.....	:Farmers' Bulletin 365:	.05
	:Irrigation of Orchards.....	:Farmers' Bulletin 882:	.05
	:Surface Irrigation for Eastern Farms.....	:Farmers' Bulletin 899:	.05
	:Potato Culture Under Irrigation.....	:Farmers' Bulletin 953:	.05
	:Growing Irrigated Grain in Southern Idaho...	:Farmers' Bulletin 1103:	.05
	:The Border Method of Irrigation.....	:Farmers' Bulletin 1243:	.05
	:Corrugation Method of Irrigation.....	:Farmers' Bulletin 1348:	.05
	:Pumping from Wells for Irrigation.....	:Farmers' Bulletin 1404:	.05
	*:Experiments on the Economical Use of Irrigation Water in Idaho.....	:Dept. Bulletin 339	: .10
	*:Irrigation in Florida.....	:Dept. Bulletin 462	: .15

*: Spray Irrigation.....	:Dept. Bulletin 495	: .10
: Irrigation District Operation and Finance.....	:Dept. Bulletin 1177	: .10
*: Pumping for Irrigation on the Farm	:Ybk. 1 1916 Separate 703	: .05
: With the Irrigation Farmer	:Ybk. 1920 Separate 839	: .05
Drain- : Drainage of Irrigated Lands.....	:Farmers' Bulletin 805	: .05
age : Organization, Financing and Administration of :		
: Drainage Districts.....	:Farmers' Bulletin 815	: .05
: Title Trenching Machinery.....	:Farmers' Bulletin 1131	: .05
: Gullies, How to Control and Reclaim Them.....	:Farmers' Bulletin 1234	: .10
: Terracing Farm Lands.....	:Farmers' Bulletin 1386	: .05
: Excavating Machinery Used in Land Drainage.....	:Dept. Bulletin 300	: .20
*: The Drainage of Irrigated Shale Land.....	:Dept. Bulletin 502	: .15
*: Prevention of the Erosion of Farm Lands by Ter- :		
: racing.....	:Dept. Bulletin 512	: .15
*: Range Preservation and Its Relation to Erosion :		
: Control on Western Grazing Lands.....	:Dept. Bulletin 675	: .10
*: Flow of Water in Concrete Pipe.....	:Dept. Bulletin 852	: .25
*: Flow of Water in Tile Drain.....	:Dept. Bulletin 854	: .25
: Drainage District Assessments.....	:Dept. Bulletin 1207	: .10
*: Economy of Farm Drainage.....	:Ybk. 1914 Separate 640	: .05
*: Community Tile Drainage Construction.....	:Ybk. 1919 Separate 822	: .05
Struc- : The Construction of Concrete Fence Posts.....	:Farmers' Bulletin 403	: .05
tures *: Hog Houses.....	:Farmers' Bulletin 438	: .05
*: Concrete Construction on the Livestock Farm.....	:Farmers' Bulletin 481	: .05
*: Ice Houses and the Use of Ice on the Poultry Farm	:Farmers' Bulletin 623	: .05
*: A Simple Trap Nest for Poultry.....	:Farmers' Bulletin 682	: .05
*: A Plan for a Small Dairy House.....	:Farmers' Bulletin 689	: .05
: Equipment for Farm Sheep Raising.....	:Farmers' Bulletin 810	: .05
: Construction and Use of Farm Weirs.....	:Farmers' Bulletin 813	: .05
: Pit Silos.....	:Farmers' Bulletin 825	: .05
: Farm Reservoirs.....	:Farmers' Bulletin 828	: .05
: Modern Method of Protecting Against Lightning...	:Farmers' Bulletin 842	: .05
*: Management of Common Storage House for Apples in:		
: the Pacific Northwest.....	:Farmers' Bulletin 852	: .05
: Homemade Silos.....	:Farmers' Bulletin 855	: .05
*: Home Storage of Vegetables.....	:Farmers' Bulletin 879	: .05
: Fire Prevention and Fire Fighting on the Farm...	:Farmers' Bulletin 904	: .05
*: A Simple Hog Breeding Crate.....	:Farmers' Bulletin 966	: .05
: One-Register Furnaces (pipeless furnaces).....	:Farmers' Bulletin 1174	: .05
: Operating Home Heating Plant.....	:Farmers' Bulletin 1194	: .05
: Farm Dairy Houses.....	:Farmers' Bulletin 1214	: .05
: Sewage and Sewerage of Farm Homes.....	:Farmers' Bulletin 1227	: .05
: Chimneys and Fireplaces, How to Build Them.....	:Farmers' Bulletin 1230	: .05
: Utilization of Flue-heated Tobacco Barns for :		
: Sweet-Potato Storage.....	:Farmers' Bulletin 1267	: .05
: Plain Concrete for Farm Use.....	:Farmers' Bulletin 1279	: .05
: Greenhouse Construction and Heating.....	:Farmers' Bulletin 1318	: .05
: Dairy-barn Construction.....	:Farmers' Bulletin 1342	: .05
: Beef-Cattle Barns.....	:Farmers' Bulletin 1350	: .05
: Principles of Dairy Barn Ventilation.....	:Farmers' Bulletin 1393	: .05
: Poultry House Construction.....	:Farmers' Bulletin 1413	: .05
*: Flumes and Fluming.....	:Dept. Bulletin 87	: .10

¹If Yearbooks (Ybk.) are on file in the School Library, Separates may be found in them under date of publication.

Sanita-	*: Flytraps and Their Operation.....	: Farmers' Bulletin	734	: .05
tion	: Farm Reservoirs.....	: Farmers' Bulletin	828	: .05
	: Some Common Disinfectants.....	: Farmers' Bulletin	926	: .05
	: Farm Home Conveniences.....	: Farmers' Bulletin	927	: .05
	: White Ants as Pests in The United States and :			
	: Methods of Preventing Their Damage.....	: Farmers' Bulletin	1037	: .05
	: Harvesting and Storing Ice.....	: Farmers' Bulletin	1078	: .05
	: Argentine Ant as a Household Pest.....	: Farmers' Bulletin	1101	: .05
	: Housecleaning Made Easier.....	: Farmers' Bulletin	1180	: .05
	: Floors and Floor Covering.....	: Farmers' Bulletin	1219	: .05
	: Sewage and Sewerage of Farm Homes.....	: Farmers' Bulletin	1227	: .05
	: How to Get Rid of Rats.....	: Farmers' Bulletin	1302	: .05
	: Yellow-Fever Mosquito.....	: Farmers' Bulletin	1354	: .05
	: The House Fly.....	: Farmers' Bulletin	1408	: .05
	: Water Systems for Farm Homes.....	: Farmers' Bulletin	1448	: .05
	*: Sewage Disposal on the Farm.....	: Ybk. 1916 Separate	712	: .05
Machin-	*: Economic Study of the Farm Tractor in the :			
ery	: Corn Belt.....	: Farmers' Bulletin	719	: .05
	: The Care and Repair of Farm Implements, III. :			
	: Plows and Harrows.....	: Farmers' Bulletin	946	: .05
	: The Care and Repair of Farm Implements, IV. :			
	: Mowers, Reapers, and Binders.....	: Farmers' Bulletin	947	: .05
	: Tractor Experiments in Illinois: A Study of :			
	: the Farm Tractor Under Corn Belt Conditions. : Farmers' Bulletin	963	: .05	
	: Efficient Operation of Threshing Machines.... : Farmers' Bulletin	991	: .05	
	: The Use of Machinery in Cutting Corn..... : Farmers' Bulletin	992	: .05	
	: The Gas Tractor in Eastern Farming..... : Farmers' Bulletin	1004	: .05	
	: Haystakers; How They May be used in the East :			
	: and South to Save Labor.....	: Farmers' Bulletin	1009	: .05
	: Practical Hints on Running a Gas Engine.....	: Farmers' Bulletin	1013	: .05
	: Machinery for Cutting Firewood.....	: Farmers' Bulletin	1023	: .05
	: The Farm Tractor in the Dakotas.....	: Farmers' Bulletin	1035	: .05
	: Laying out Field for Tractor Plowing.....	: Farmers' Bulletin	1045	: .05
	*: Influence of the Tractor on Use of Horse.... : Farmers' Bulletin	1093	: .05	
	: Title-trenching Machinery.....	: Farmers' Bulletin	1131	: .05
	*: Motor-Trucks on Eastern Farms.....	: Farmers' Bulletin	1201	: .05
	: Tractors on Southern Farms.....	: Farmers' Bulletin	1278	: .05
	: What Tractors and Horses do on Corn-Belt :			
	: Farms.....	: Farmers' Bulletin	1295	: .05
	: Changes Effected by Tractors on Corn-Belt :			
	: Farms.....	: Farmers' Bulletin	1296	: .05
	: Cost of Using Tractors on Corn-Belt Farms.... : Farmers' Bulletin	1297	: .05	
	: Cost of Using Horses on Corn-Belt Farms.... : Farmers' Bulletin	1298	: .05	
	: Shall I buy a Tractor for a Corn-Belt Farm... : Farmers' Bulletin	1299	: .05	
	: Choosing a Tractor for a Corn-Belt Farm.... : Farmers' Bulletin	1300	: .05	
	: Motor Trucks on Corn Belt Farms.....	: Farmers' Bulletin	1314	: .05
	: Cotton Dusting Machinery.....	: Farmers' Bulletin	1319	: .05
	: Dust Explosions and Fires in Grain Separa- :			
	: tors in the Pacific Northwest.....	: Dept. Bulletin	379	: .10
	*: Small Sawmills: Their Equipment, Construc- :			
	: tion and Operation.....	: Dept. Bulletin	718	: .10
	: Installation of Dust-Collecting Fans on :			
	: Threshing Machines for Prevention of Ex- :			
	: plosions and Fires and for Grain Cleaning... : Dept. Circular	98	: .05	

: Cotton-seed mixing Increased by Modern Gin : : : : .05			
: Equipment.....:Dept. Circular 205 : : : .05			
: Manufacture and Sale of Farm Equipment, 1920, : : : .05			
: Summary of Reports from 585 Manufacturers.....:Dept. Circular 212 : : : .05			
: Grounding Cotton Gins to Prevent Fires.....:Dept. Circular 271 : : : .05			
Roads	: Macadam Roads.....:Farmers' Bulletin 338 : : : .05		
and	*: Benefits of Improved Roads.....:Farmers' Bulletin 505 : : : .05		
Bridges	: The Road Drag and How It is Used.....:Farmers' Bulletin 597 : : : .05		
	: Progress Reports of Experiments in Road Pres- : : : .05		
	: ervation and Dust Prevention, 1913.....:Dept. Bulletin 105 : : : .05		
	*: Vitrified Brick Pavements for Country Roads.....:Dept. Bulletin 246 : : : .10		
	*: Portland Cement Concrete Pavements for : : : .15		
	: Country Roads.....:Dept. Bulletin 249 : : : .15		
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	: ervation and Dust Prevention, 1914.....:Dept. Bulletin 257 : : : .10		
	*: Methods for the Examination of Bituminous : : : .10		
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	*: The Result of Physical Tests of Road-building : : : .15		
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	*: Economic Surveys of County Highway Improvement..:Dept. Bulletin 393 : : : .35		
	*: Progress Reports of Experiments in Dust Pre- : : : .10		
	: vention and Road Preservation, 1915.....:Dept. Bulletin 407 : : : .10		
	*: Earth, Sand-Clay, and Gravel Roads.....:Dept. Bulletin 463 : : : .15		
	*: The Expansion and Construction of Concrete : : : .10		
	: and Concrete Roads.....:Dept. Bulletin 532 : : : .10		
	*: Standard Forms for Specifications, Tests, Re- : : : .10		
	: ports, and Methods of Sampling for Road Ma- : : : .10		
	: terials.....:Dept. Bulletin 555 : : : .10		
	*: Progress Reports of Experiments in Dust Pre- : : : .10		
	: vention and Road Preservation, 1916.....:Dept. Bulletin 586 : : : .10		
	*: Drainage Methods and Foundations for Country : : : .20		
	: Roads.....:Dept. Bulletin 724 : : : .20		
	*: Results of Physical Tests of Road-building : : : .10		
	: Rocks, 1916-21.....:Dept. Bulletin 1132 : : : .10		
	*: Standard Specifications for Steel Highway : : : .10		
	: Bridges.....:Dept. Bulletin 1259 : : : .10		
	*: Opening Up the National Forests by Road Building:Ybk. 1916 Separate 696 : : .05		
	*: The Design of Public Roads.....:Ybk. 1917 Separate 727 : : .05		
	*: Roads.....:Ybk. 1920 Separate 849 : : .05		
	*: Width of Wagon Tires Recommended for Loads of : : : .05		
	: Varying Magnitude on Earth and Gravel Roads....:Off. of Sec. Circular 72: .05		
Materi-	: The Preservative Treatment of Farm Timbers.....:Farmers' Bulletin 744 : : .05		
als of	: Plain Concrete for Farm Use.....:Farmers' Bulletin 1279 : : .05		
Con-	*: Oil-mixed Portland Cement Concrete.....:Dept. Bulletin 230 : : .10		
struc-	*: Strength Tests of Structural Timbers Treated by : : : .05		
tion	: Commercial Wood-preserving Processes.....:Dept. Bulletin 286 : : .05		
	*: Kiln Drying Handbook.....:Dept. Bulletin 1136 : : .25		
	: Tentative Standard Methods of Sampling and : : : .05		
	: Testing Highway Materials.....:Dept. Bulletin 1216 : : .15		
	*: Basic Grading Rules and Working Stresses for : : : .05		
	: Structural Timbers.....:Dept. Circular 295 : : .05		

**:Standard Grading Specifications for Yard	:	
: Lumber.....	:Dept. Circular 296	: .20
*:The Substitution of Other Materials for Wood...:Dept. Report 117	:	.15
*:Demonstration Courses in Kiln Drying, Boxing, :		
: and Crating, Gluing of Wood, Wood Properties :		
: and Uses	:Misc. Circular 8	: .05
Miscel- *:Clearing Land.....	:Farmers' Bulletin 974	: .05
laneous :Waterproofing and Mildewproofing of Cotton Duck:Farmers' Bulletin 1157	:	.05
:The Care of Leather.....	:Farmers' Bulletin 1183	: .05
:Home Tanning of Leather and Small Fur Skins....:Farmers' Bulletin 1334	:	.05
:The Windbreak as a Farm Asset.....	:Farmers' Bulletin 1405	: .05
*:Some Exercises in Farm-Handicraft for Rural	:	
: Schools.....	:Dept. Bulletin 527	: .10
:Experimental Production of Straw Gas.....	:Dept. Bulletin 1203	: .05
:Land Reclamation Policies in the United States	:Dept. Bulletin 1257	: .05
:Work of Yuma Reclamation Project Experiment	:	
: Farm in 1919 and 1920.....	:Dept. Circular 221	: .10
*:Home Tanning.....	:Dept. Circular 230	: .05
*:Work of Newlands Reclamation Project Experiment:		
: Farm in 1920 and 1921.....	:Dept. Circular 267	: .05
:Work of Huntley Reclamation Project Experiment	:	
: Farm in 1921.....	:Dept. Circular 275	: .05

